IN THE CLAIMS

1. (Currently amended) A computer-implemented method comprising:

(a) receiving a temporal period associated with a wake-up schedule for a device that has a power-save mode, said temporal period based on existing transmission schedules and wherein said temporal period is utilized for subsequent wake-ups independent of beacons;

(b) determining, based on one or more existing schedules, whether said temporal period can be accommodated, wherein ~~said~~ a temporal offset is based on existing wake-up schedules and is utilized to reduce an occurrence of concurrent wake-ups, and wherein said temporal offset indicates a relative time with respect to said temporal period; and

(c) when said temporal period can be accommodated,

(i) determining a temporal offset for said wake-up schedule, and

(ii) transmitting to said device a positive notice comprising said temporal offset.

2. (Original) The method of claim 1 further comprising:

(d) when said temporal period cannot be accommodated, transmitting to said device a negative notice.

3. (Original) The method of claim 1 wherein (i) comprises selecting a value for said temporal offset so that the rate of collisions between said wake-up schedule and said one or more existing schedules is below a threshold.

4. (Original) The method of claim 1 further comprising:

(a1) receiving a suggested temporal offset associated with said wake-up schedule.

5. (Original) The method of claim 4 wherein (i) comprises setting said temporal offset to said suggested temporal offset when the rate of collisions between said suggested temporal offset and said one or more existing schedules is below a threshold.

6. (Original) The method of claim 1 further comprising:

(iii) transmitting a signal to said device in accordance with said temporal period and said temporal offset.

7. (Original) The method of claim 6 further comprising:

(iv) refraining from transmitting to enable one or more stations that have said power-save mode to transmit a frame.

8. (Original) The method of claim 6 wherein said signal comprises at least one of: a poll, and a plurality of frames.

9. (Original) The method of claim 1 further comprising:

(iv) receiving a signal from said device in accordance with said temporal period and said temporal offset.

10. (Original) The method of claim 9 wherein said signal comprises a plurality of frames.

11. (Original) The method of claim 1 wherein said receiving and said transmitting are via a shared-communications channel.

12. (Currently amended) A computer implemented method comprising:

(a) transmitting a temporal period associated with a wake-up schedule for a power-save mode, said temporal period based on existing transmission schedules and wherein said temporal period is utilized for subsequent wake-ups independent of beacons;

(b) receiving a temporal offset in response to (a) , wherein said temporal offset is based on existing wake-up schedules and is utilized to reduce an occurrence of concurrent wake-ups, and wherein said temporal offset indicates a relative time with respect to said temporal period;

(c) entering said power-save mode;

(d) waking up from said power-save mode in accordance with said temporal period and said temporal offset; and

(e) receiving a first signal when awake.

13. (Original) The method of claim 12 wherein said first signal comprises a poll.

14. (Original) The method of claim 12 wherein said first signal comprises a plurality of downlink frames.

15. (Original) The method of claim 12 further comprising:

(f) transmitting a second signal when awake.

16. (Original) The method of claim 12 wherein said receiving and said transmitting are via a shared-communications channel.

17. (Currently amended) A computer implemented method comprising:

(a) transmitting a temporal period and a suggested temporal offset associated with a wake-up schedule for a power-save mode, said temporal period based on existing transmission schedules and wherein said temporal period is utilized for subsequent wake-ups independent of beacons, wherein said temporal offset is based on existing wake-up schedules and is utilized to reduce an occurrence of concurrent wake-ups, and wherein said temporal offset indicates a relative time with respect to said temporal period;

(b) receiving a temporal offset based on at least one of:

(i) said suggested temporal offset, and

(ii) one or more existing schedules;

(c) entering said power-save mode;

(d) waking up from said power-save mode in accordance with said temporal period and said temporal offset; and

(e) transmitting a first signal when awake.

18. (Original) The method of claim 17 wherein said first signal comprises a plurality of frames.

19. (Previously Presented) The method of claim 17 further comprising:

(f) receiving a second signal when awake.

20. (Original) The method of claim 19 wherein said second signal comprises a plurality of frames.